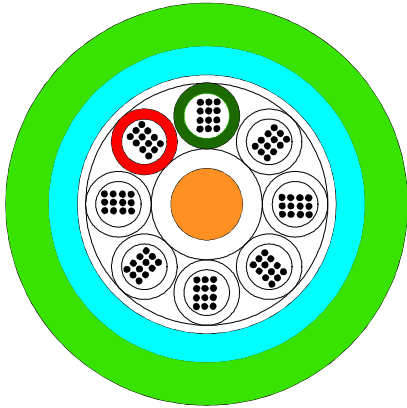


N05: Reinforced, stranded indoor/outdoor cable

6 – 216 Optical fibres; 6, 8 or 12 fibres per \varnothing 2.3 mm tube; glass yarn reinforcement, FireBur[®] sheath, IEC 60332-1-2

EN 50 173-1

IEC 60794-2-21



Application

Universal indoor/outdoor cable for LAN, MAN and WAN backbones and CATV trunk lines
Installation in ducts

Standards

EN 187 000
IEC 60794-2
IEC 60794-2-20
IEC 60794-2-21
ISO 11801 2nd edition
EN 50 173-1

Construction

Central strength member	\varnothing 2.5 mm FRP rod
Loose tube	\varnothing 2.3 mm jelly filled loose tubes, with 6 – 12 fibres each, up to 18 tubes in two layers, for lay-up refer to B04
Water blocking	The core is waterblocked using swellable tape and tread
Wrapping	Polyester nonwoven
Reinforcement	Layer of glass fibre yarns as reinforcement and rodent protection.
Ripcord	Polyester ripcord for easy slitting of the sheath
Sheath	1.5 mm green FireBur [®] , UV stabilized, EN 50290-2-27

Fire rating

IEC 60332-1-2	Single vertical wire test,
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

N05: Reinforced, stranded indoor/outdoor cable

Heat of combustion

Fibre count; 6 fibre/tube	Fibre count; 8 fibre/tube	Fibre count; 12 fibre/tube		
6-36	8-48	12-72	2000 MJ/km	0.56 KWh/m
42-48	56-64	84-96	2700 MJ/km	0.75 KWh/m
54-60	72-80	108-120	3500 MJ/km	0.97 KWh/m
66-72	88-96	132-216	4000 MJ/km	1.11 KWh/m

Physical properties

IEC 60974-1-2

Tensile strength (dynamic)	E1	>4800 N
Tensile strength (permanent)	E1	>3400 N
Compressive strength (crush)	E3	3000N
Impact	E4	20 Nm
Torsion	E7	5 cycles \pm 1 turn
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter
Temperature range	F1	The cables can bear temperature cycling between -40 °C to +70 °C. The cables will operate without any attenuation variation (\leq 0.05 dB) in the temperature interval -30°C to +60°C. The cables will operate with a maximum attenuation variation of 0.1 dB/km in the temperature interval -40°C to +70°C.
Water penetration	F5	No water on free end

Mechanical properties

Fibre count; 6 fibre/tube	Fibre count; 8 fibre/tube	Fibre count; 12 fibre/tube	Nominal diameter	Nominal cable weight	Minimum bending radius
6-36	8-48	12-72	11.0 \pm 0.5 mm	130 kg/km	150 mm
42-48	56-64	84-96	13.0 \pm 0.5 mm	165 kg/km	180 mm
54-60	72-80	108-120	14.0 \pm 0.5 mm	200 kg/km	200 mm
66-72	88-96	132-216	15.5 \pm 0.5 mm	240 kg/km	220 mm

Transmission characteristics

IEC 60793-2

Refer to the fibre data sheets

Type designation cross reference

DIN/VDE	I/A- D Q (ZN) B H n x (6, 8 or 12)... LG; n is 1 to 18
Draka Denmark	LTnnnmm-70-xxx; nnn is the fibre count, mm the fibre type